ICO3 Rec'd PCT/PTO 1 6 MAY 2009 ATTORNEY'S DOCKET NUMBER U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE FORM PTO-1390 (Modified) (REV. 12-2004) PP019420.0006 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) 0/535169 CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 PRIORITY DATE CLAIMED INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE 15 November 2002 17 November 2003 PCT/US2003/036679 TITLE OF INVENTION METHODS FOR PREVENTING AND TREATING METATASIS AND BONE LOSS ASSOCIATED WITH CANCER METASTASIS APPLICANT(S) FOR DO/EO/US Deborah Lee ZIMMERMAN, Gregory HARROWE, Cheng LIU, Kirston KOTHS, W. Michael KAVANAUGH and Li LONG Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. \boxtimes This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), \bowtie 3. (9) and (24) indicated below. 4. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) 5. is attached hereto (required only if not communicated by the International Bureau). b. 🗆 has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. 🗆 is attached hereto. b. 🗆 has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) 7. a. 🛚 are attached hereto (required only if not communicated by the International Bureau). b. 🗆 have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 8. 9. An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). A copy of the International Preliminary Examination Report (PCT/IPEA/409). 11. A copy of the International Search Report (PCT/ISA/210). 12. Items 13 to 23 below concern document(s) or information included: 13. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.

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A FIRST preliminary amendment.

A substitute specification.

Express Mail Label No.

Other items or information:

unsigned Declaration for Patent Application

A SECOND or SUBSEQUENT preliminary amendment.

A power of attorney and/or change of address letter.

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PCTUS1/REV05

An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.

A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.

A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).

A second copy of the published International Application under 35 U.S.C. 154(d)(4).

EV525241981US

JC14 Rec'd PCT/PTO 16 MAY 2005

PTO-1390 (Rev. 12-2004)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION PO (Hypewn see 37 OFF 1.5)			INTERNATIONAL APPLICATION NO.			ATTORNEY'S DOCKET NUMBER				
			PCT/US2003/036679			PP019420.0006				
24. The following fees are submitted:						Appli	cant use	Office use		
a) Basic national fee						\$	\$300.00			
⊠ b) Examination fee						\$	\$200.00			
☑ c) Search fee						\$	\$500.00			
TOTAL OF ABOVE CALCULATIONS = \$1000.00						\$	\$1,000.00			
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.										
Total Sheets	Extra Sheets	Extra Sheets Number of each additional 50 or fraction thereof (round up to a whole								
134 - 100 =	34 /50 =		1		× .\$250.00	\$	\$250.00			
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).							\$130.00			
CLAIMS	NUMBER F	NUMBER EXTRA	RATE							
Total claims	114	- 20 =	94	×	\$50.00	\$	\$4,700.00			
Independent clair	ns 42	- 3=	39	×	\$200.00	\$	\$7,800.00			
MULTIPLE DEPENDENT CLAIMS (if applicable) → \$360.0						\$	\$360.00			
TOTAL OF ABOVE CALCULATIONS =							\$14,240.00			
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.							\$0.00			
SUBTOTAL =						\$	\$14,240.00	-		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).							\$0.00	•		
TOTAL NATIONAL FEE =							\$14,240.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +						\$	\$0.00			
• TOTAL FEES ENCLOSED =							\$14,240.00			
Amount to be refunded:								\$		
Amount to be charged:								\$		
a. 🔀 A check in the amount of \$ \$14,240.00 to cover the above fees is enclosed.										
b. Please of A duplic	b. Please charge my Deposit Account No in the amount of to cover the above fees. A duplicate copy of this sheet is									
	The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 03-1664 . A duplicate copy of this sheet is enclosed.									
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.										
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.										
SEND ALL CORRESPONDENCE TO:										
Chiron Corporation SIGNATURI										
Intellectual Property R-338 Lisa E. Al						exander				
P.O. Box 8097										
Emeryville, California 94662-8097 US Customer No. 27476 A1,576										
11,576							TION NUMBER			
	REGISTRAT							TION NUMBER		

PATENT COOPERATION TREATY IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

International Application No. PCT/US2003/036679

International Filing Date
17 November 2003

Priority Date Claimed 15 November 2002

Title of Invention
METHODS FOR PREVENTING AND TREATING CANCER METATASIS AND BONE LOSS
ASSOCIATED WITH CANCER METATASIS

Applicants for DO/EO/US:

Deborah Lee ZIMMERMAN, Gregory HARROWE, Cheng LIU, Kirston KOTHS, W. Michael KAVANAUGH and Li LONG

CERTIFICATE OF MAILING BY EXPRESS MAIL

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Express Mail Mailing Label No.: EV525241981 US

Date of Deposit: 16 May 2005

I hereby certify that the attached Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C.371 copy of unsigned Declaration for Patent Application, copy of Published Specification, Check No. 8818 in the amount \$14,240.00 and Postal Receipt Card are being deposited with the United Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R.1.10 on the date indicated above and addressed to the Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: <u>16</u> May 2005

Esperanza Licad

CHIRON CORPORATION 4560 Horton Street Emeryville, California 94608 United States of America